

# INTERNATIONAL SEARCH REPORT

PCT/GB2004/004758

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04N7/26 H04N7/46 H04N7/34 H04N7/36

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/169816 A1 (GANDHI RAJEEV ET AL) 11 September 2003 (2003-09-11) paragraph '0011! - paragraph '0056!	1-4
A		5,6
X	LIANG-WEI LEE ET AL INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS: "Dynamic mapping technique for adaptive Huffman code" PROCEEDINGS OF THE REGION TEN CONFERENCE (TENCON). BEIJING, OCT. 19 - 21, 1993, BEIJING, IAP, CN, vol. VOL. 3, 19 October 1993 (1993-10-19), pages 653-656, XP010114149 ISBN: 0-7803-1233-3 the whole document	1-4
A		5,6
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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

### \* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

14 April 2005

Date of mailing of the international search report

26 04 2005

Name and mailing address of the ISA

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C(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SALOMON D: "DATA COMPRESSION THE COMPLETE REFERENCE, PASSAGE" DATA COMPRESSION : THE COMPLETE REFERENCE, NEW YORK, NY : SPRINGER, US, 1998, pages A,38-40,50, XP001149673 ISBN: 0-387-98280-9 page 50 - page 56, paragraph 2.9-2.9.5	1,4
A	-----	2,3,5,6
X	WO 97/08899 A (EIDOS PLC; STREATER, STEPHEN, BERNARD) 6 March 1997 (1997-03-06) the whole document	5,6
A	-----	1-4
X	WO 02/05561 A (FORBIDDEN TECHNOLOGIES PLC; STREATER, STEPHEN, BERNARD; BRUNSWICK, BRI) 17 January 2002 (2002-01-17) the whole document	5,6
A	-----	1-4
A	SALOMON D: "DATA COMPRESSION THE COMPLETE REFERENCE, PASSAGE" DATA COMPRESSION : THE COMPLETE REFERENCE, NEW YORK, NY : SPRINGER, US, 1998, XP002314177 PAGES 25-26,103-106 ISBN: 0-387-98280-9 the whole document	1-6
A	-----	1-6
A	CHEE Y-K: "SURVEY OF PROGRESSIVE IMAGE TRANSMISSION METHODS" INTERNATIONAL JOURNAL OF IMAGING SYSTEMS AND TECHNOLOGY, WILEY AND SONS, NEW YORK, US, vol. 10, no. 1, 1999, pages 3-19, XP000805935 ISSN: 0899-9457 page 13, paragraph VI.A page 13 - page 14, paragraph VI.B figure 10	1-6
A	-----	1-6
A	WO 95/16325 A (EIDOS PLC; STREATER, STEPHEN, BERNARD) 15 June 1995 (1995-06-15) the whole document	1-6
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>NAMGOONG W ET AL: "LOW-POWER VIDEO ENCODER/DECODER USING WAVELET/TSVQ WITH CONDITIONAL REPLENISHMENT"</p> <p>1996 IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING - PROCEEDINGS. (ICASSP). ATLANTA, MAY 7- 10, 1996, IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING - PROCEEDINGS. (ICASSP), NEW YORK, IEEE, US, vol. VOL. 6 CONF. 21, 7 May 1996 (1996-05-07), pages 3240-3243, XP000681745</p> <p>ISBN: 0-7803-3193-1</p> <p>page 3241, paragraph 3.5</p>	1-6
A	<p>CAGNAZZO M ET AL: "Low-complexity scalable video coding through table lookup VQ and index coding"</p> <p>IN F. BOAVIDA ET AL., PROCEEDINGS OF THE JOINT INTERNATIONAL WORKSHOP ON INTERACTIVE DISTRIBUTED MULTIMEDIA SYSTEMS AND PROTOCOLS FOR MULTIMEDIA SYSTEMS (IDMS/PROMS 2002), COIMBRA, PORTUGAL, 26-29 NOV. 2002; LECTURE NOTES IN COMPUTER SCIENCE VOL.2515, 2002, pages 166-175, XP002324381</p> <p>SPRINGER-VERLAG, BERLIN, HEIDELBERG</p> <p>ISBN: 3-540-00169-7</p> <p>page 168 - page 172, paragraphs 2,3</p>	1-6

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## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-4

Context-based method for variable length encoding of digital data with periodical variable length codeword re-arrangement.

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2. claims: 5,6

Method of video compression with spatial or temporal prediction, definition of luminance masks and context-based variable length encoding of the masks and of the spatial or temporal gaps between changed blocks.

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## INTERNATIONAL SEARCH REPORT

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2003169816 A1	11-09-2003	AU 2003273914 A1 CA 2474355 A1 EP 1472884 A2 WO 03105483 A2	22-12-2003 18-12-2003 03-11-2004 18-12-2003
WO 9708899 A	06-03-1997	AT 209421 T DE 69617249 D1 EP 0846397 A1 WO 9708899 A1 GB 2318474 A ,B US 6195128 B1	15-12-2001 03-01-2002 10-06-1998 06-03-1997 22-04-1998 27-02-2001
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WO 9516325 A	15-06-1995	AT 266928 T AU 1195695 A DE 69433777 D1 EP 0733294 A1 WO 9516325 A1 GB 2298546 A ,B US 5831677 A	15-05-2004 27-06-1995 17-06-2004 25-09-1996 15-06-1995 04-09-1996 03-11-1998